

DERWENT-ACC-NO: 1975-59413W

DERWENT-WEEK: 197536

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TITLE: Metallic salts removal from waste  
water - by pptn. with  
caustic alkali and addn. of silica  
powder to assist  
settling

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PATENT-FAMILY:

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JP 50008371 A

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ABSTRACTED-PUB-NO: JP 50008371A

BASIC-ABSTRACT:

Metallic salts are removed from waste water by adding caustic alkali to ppt. the salts as metallic hydroxides. Cryst. SiO<sub>2</sub> powder (100-400 mesh) is added to the waste water to accelerate the pptn. and coagulation of metallic hydroxides. Thus, 1.6 g. powdered silica (200-300 mesh) was added to 1 l. of an aq. soln. contg. 400 ppm Cu<sup>2+</sup>; and 5% aq. NaOH soln. was added to adjust the pH to 8.0. The coagulation and pptn. rates of flocs were 0.20 and 3.83 cm/min., resp., c.t. 0.010 and 1.12 when silica was not added. The resulting supernatant liq. contained 1.5 ppm Cu<sup>2+</sup>.

TITLE-TERMS: METALLIC SALT REMOVE WASTE WATER PRECIPITATION  
CAUSTIC ALKALI ADD  
SILICA POWDER ASSIST SETTLE

DERWENT-CLASS: D15 J01

CPI-CODES: D04-B02; J01-D01; J01-F01;